

FIG. 1

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| APPROVED | O.G. FIG. |
| BY | CLASS SUBCLASS |
| DRAFTSMAN | |

App No.: 09/778,516
 Applicant(s): Wei-Yu Lo et al.
 LAC SHUTTLE VECTORS

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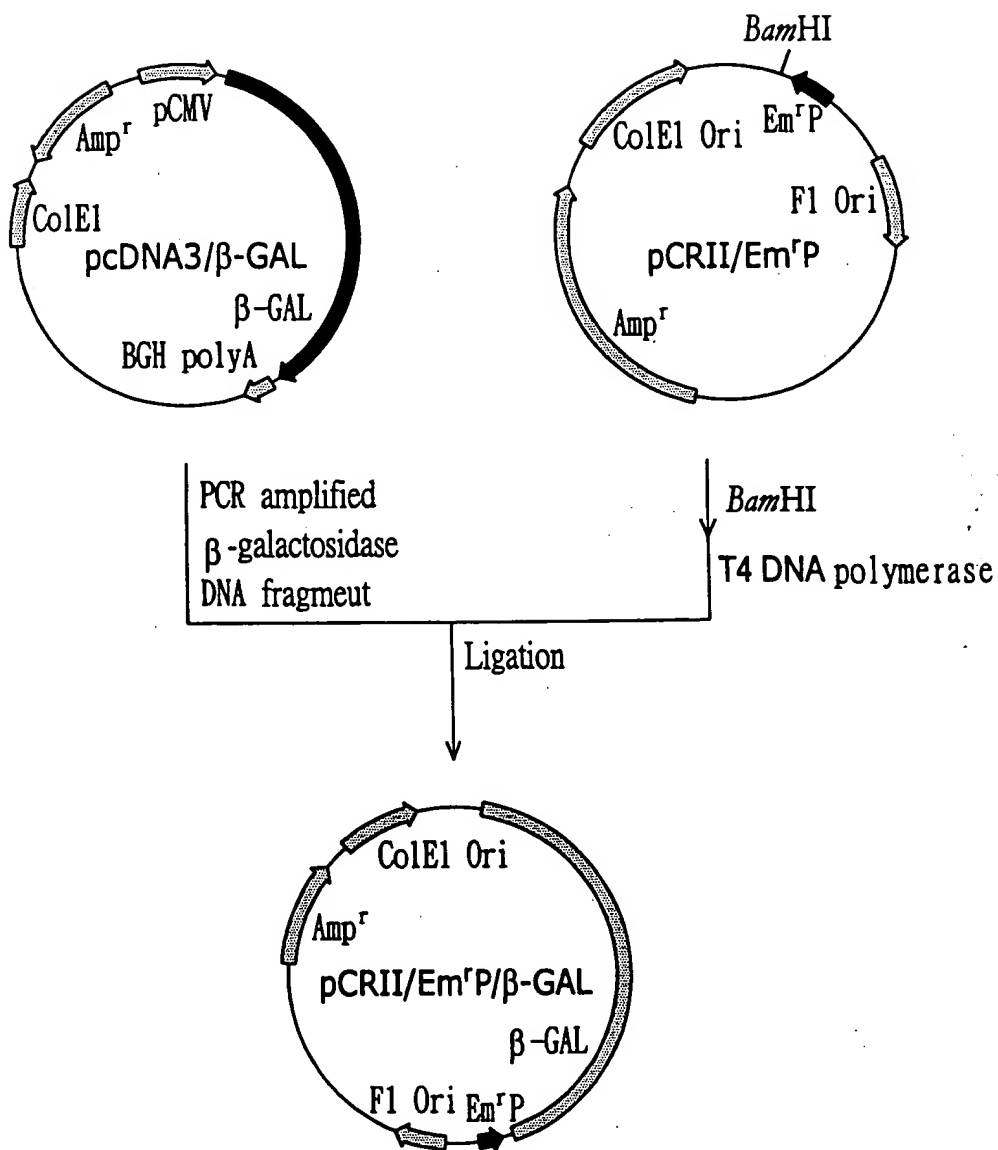


FIG. 2

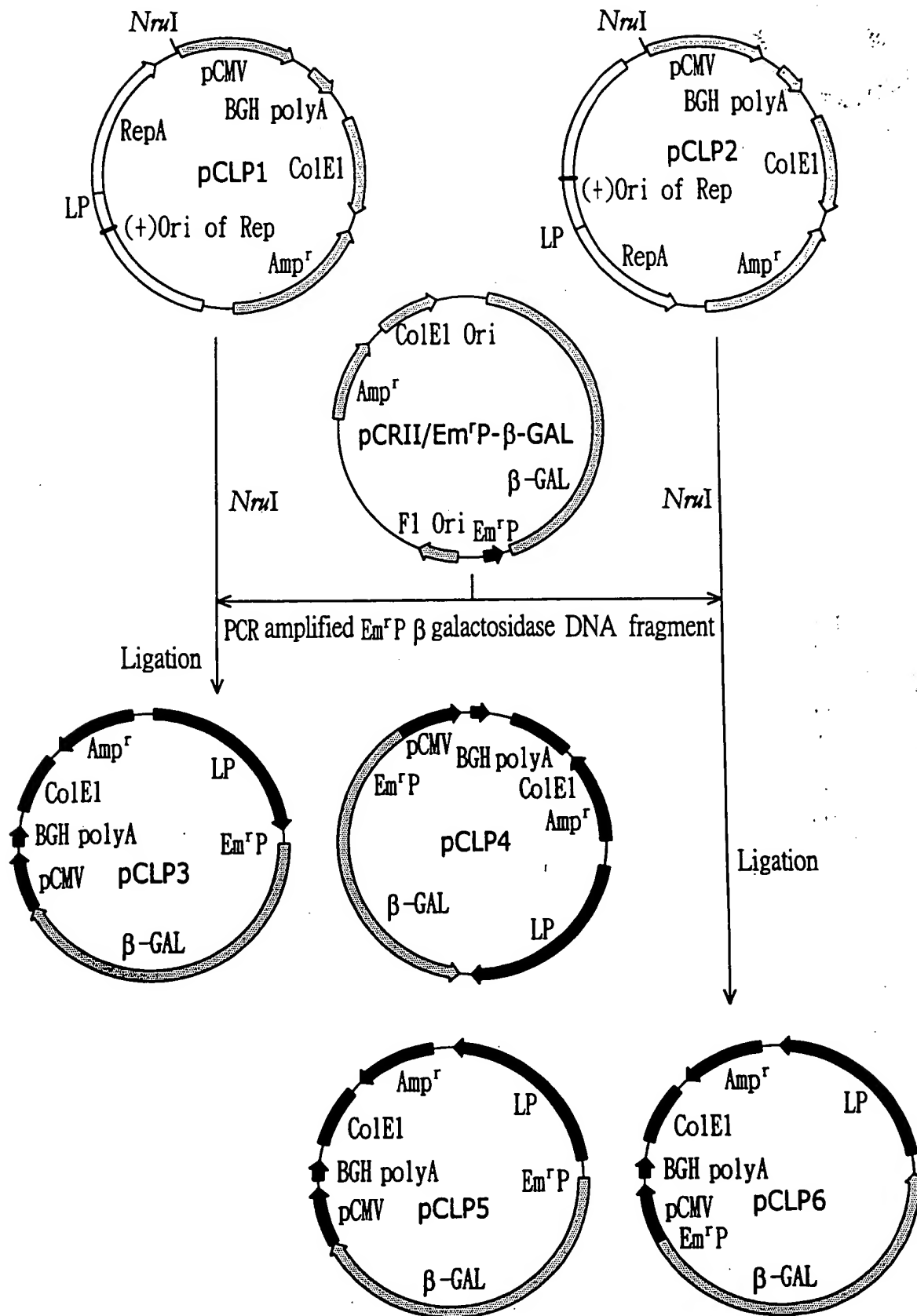


FIG. 3

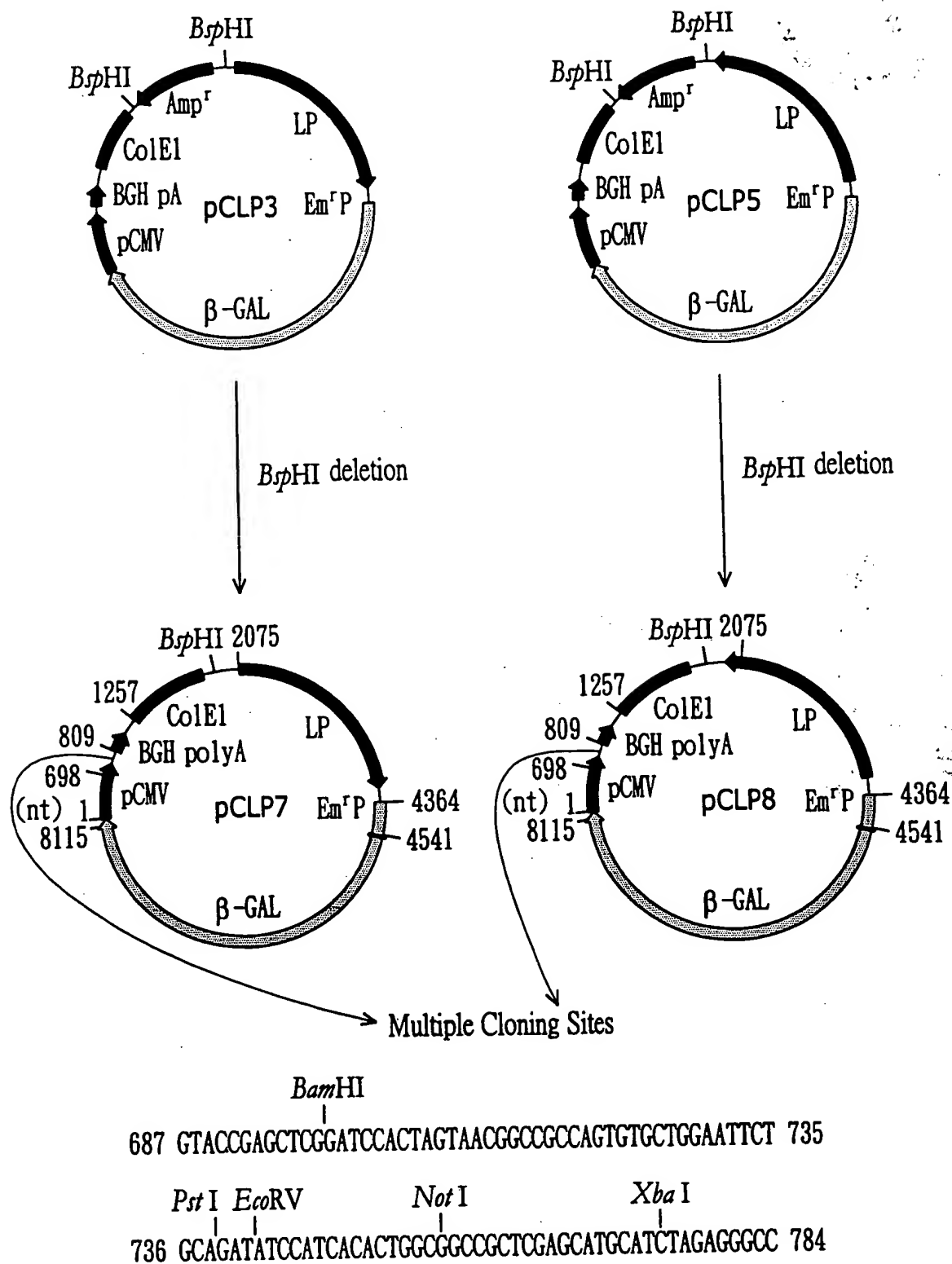


FIG. 4

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      10      20      30      40      50      60
GATGTACGGG CCAGATATAC GCGTTGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA

      70      80      90      100     110     120
ATTACGGGGT CATTAGTTCA TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA

      130     140     150     160     170     180
AATGGCCCGC CTGGCTGACC GCCCAACGAC CCCC GCCCAT TGACGTCAAT AATGACGTAT

      190     200     210     220     230     240
GTTCCCATAG TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA CTATTTACGG

      250     260     270     280     290     300
TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC CAAGTACGCC CCCTATTGAC

      310     320     330     340     350     360
GTCAATGACG GTAAATGGCC CGCCTGGCAT TATGCCCAGT ACATGACCTT ATGGGACTTT

      370     380     390     400     410     420
CCTACTTGGC AGTACATCTA CGTATTAGTC ATCGCTATTA CCATGGTGAT GCGGTTTTGG

      430     440     450     460     470     480
CAGTACATCA ATGGGCGTGG ATAGCGGTTT GACTCACGGG GATTTCCAAG TCTCCACCCC

      490     500     510     520     530     540
ATTGACGTCA ATGGGAGTTT GTTTTGGCAC CAAAATCAAC GGGACTTTCC AAAATGTCTG

      550     560     570     580     590     600
AACAACTCCG CCCCATTGAC GCAAATGGGC GGTAGGCGTG TACGGTGGGA GGTCTATATA

      610     620     630     640     650     660
AGCAGAGCTC TCTGGCTAAC TAGAGAACCC ACTGCTTACT GGCTTATCGA AATTAATACG

      670     680     690     700     710     720
ACTCACTATA GGGAGACCCA AGCTTGGTAC CGAGCTCGGA TCCACTAGTA ACGGCCGCCA

      730     740     750     760     770     780
GTGTGCTGGA ATTCTGCAGA TATCCATCAC ACTGGCGGCC GCTCGAGCAT GCATCTAGAG

      790     800     810     820     830     840
GGCCCTATTC TATAGTGTCA CCTAAATGCT AGAGCTCGCT GATCAGCCTC GACTGTGCCT

      850     860     870     880     890     900
TCTAGTTGCC AGCCATCTGT TGTTTGCCCC TCCCCCGTGC CTTCCTTGAC CCTGGAAGGT

      910     920     930     940     950     960
GCCACTCCCA CTGTCTTTTC CTAATAAAAT GAGGAAATTG CATCGCATTG TCTGAGTAGG

      970     980     990     1000    1010    1020
TGTCATTCTA TTCTGGGGGG TGGGGTGGGG CAGGACAGCA AGGGGGAGGA TTGGGAAGAC

      1030    1040    1050    1060    1070    1080
AATAGCAGGC ATGCTGGGGA TGCGGTGGGC TCTATGGCTT CTGAGGCGGA AAGAACCAGC

      1090    1100    1110    1120    1130    1140
TGCATTAATG AATCGGCCAA CGCGCGGGGA GAGGCGGTTT GCGTATTGGG CGCTCTTCCG

      1150    1160    1170    1180    1190    1200
CTTCCTCGCT CACTGACTCG CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG GTATCAGCTC

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FIG. 5A

FIG. 5B

FIG. 5C

FIG. 5D

FIG. 5E

FIG. 5F

FIG. 5G

FIG. 5A

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| APPROVED | O.G. FIG. | |
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1210 1220 1230 1240 1250 1260
ACTCAAAGGC GGTAAATACGG TTATCCACAG AATCAGGGGA TAACGCAGGA AAGAACATGT

1270 1280 1290 1300 1310 1320
GAGCAAAAGG CCAGCAAAAG GCCAGGAACC GTAAAAAGGC CGCGTTGCTG GCGTTTTTCC

1330 1340 1350 1360 1370 1380
ATAGGCTCCG CCCCCCTGAC GAGCATCACA AAAATCGACG CTCAGTCAG AGGTGGCGAA

1390 1400 1410 1420 1430 1440
ACCCGACAGG ACTATAAAGA TACCAGGCGT TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC

1450 1460 1470 1480 1490 1500
CTGTTCCGAC CCTGCCGCTT ACCGATACC TGTCCGCTT TCTCCCTTCG GGAAGCGTGG

1510 1520 1530 1540 1550 1560
CGCTTCTCA ATGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTGCTT CGCTCCAAGC

1570 1580 1590 1600 1610 1620
TGGGCTGTGT GCACGAACCC CCCGTTACGC CCGACCGCTG CGCCTTATCC GGTAACATC

1630 1640 1650 1660 1670 1680
GTCTTGAGTC CAACCCGGTA AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA

1690 1700 1710 1720 1730 1740
GGATTAGCAG AGCGAGGTAT GTAGGCGGTG CTACAGAGTT CTTGAAGTGG TGGCCTAACT

1750 1760 1770 1780 1790 1800
ACGGCTACAC TAGAAGGACA GTATTTGGTA TCTGCGCTCT GCTGAAGCCA GTTACCTTCG

1810 1820 1830 1840 1850 1860
GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC CGCTGGTAGC GGTGGTTTTT

1870 1880 1890 1900 1910 1920
TTGTTTGCAA GCAGCAGATT ACGCGCAGAA AAAAAGGATC TCAAGAAGAT CCTTTGATCT

1930 1940 1950 1960 1970 1980
TTTCTACGGG GTCTGACGCT CAGTGAACG AAAACTCACG TTAAGGGATT TTGGTCATGA

1990 2000 2010 2020 2030 2040
GCGGATACAT ATTTGAATGT ATTTAGAAAA ATAAACAAAT AGGGGTTCG CGCACATTTT

2050 2060 2070 2080 2090 2100
CCCGAAAAGT GCCACCTGAC GTCGACGGAT CGGGAGATCA ACGGTAAATC CGTTGGCATA

2110 2120 2130 2140 2150 2160
TCCCTTTTTT GTGTGACGCT TGCTGACTTC TGATACAGGT TTTAGCATTA CTCCAATTTA

2170 2180 2190 2200 2210 2220
TTTGAGTGT AAGTGCACAT TATCATGTAG TGCGCATTAT CATGTAGTGC GCATTATCAT

2230 2240 2250 2260 2270 2280
GTAGTGGCA TTATCATGTA GTGCGCATTA TCATGTAGTG CGCATTATCA TGTAGTGCGC

2290 2300 2310 2320 2330 2340
ATTATCATGT AGTGCGCACA TTATCATGTA CATTATCATG TAGTGCGCAT TATCATGTAG

2350 2360 2370 2380 2390 2400
TGCGCACATT ATCATGTAGT GCGCATTATC ATGTAGTGCG CATTATCATG TAGTGCGCAC

FIG. 5B

| | | |
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| APPROVED | O.G. FIG. | |
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2410      2420      2430      2440      2450      2460
TTACACACAA CATGAAGTTG TGTGTGCTA AACCCATCAA AACCTGCATC AGATTTTCGG

2470      2480      2490      2500      2510      2520
TTGCTCAAAC GTAAGTACT TGCCTCAGTT TGGAACATTC AAAAATAAAT AAGTTCAGTC

2530      2540      2550      2560      2570      2580
GCTAGCTCCT TCGAACTTTT TTATTTTGA ACGTTAATTT TAAAGGCTCT TATTTCGGTT

2590      2600      2610      2620      2630      2640
CTAAGCGATT TTAGCTAACA GTTAGCTATC TAACTGTCTG TCAACGGTAA ATCGACTTAG

2650      2660      2670      2680      2690      2700
AGGGGCTTAT TGAGCCTTAC AGGCGATATT AGCCCTCTT GGAGGCTTTA AGGAGTTGAT

2710      2720      2730      2740      2750      2760
AGACTAGACA ATACCAAAAG CCTGACGTCT TGGAAAACAA GCCCTTGTTT TCCCGAGCCC

2770      2780      2790      2800      2810      2820
AGCGGCGGCA AGCGTTACGG TCCAGCTGGT TCAGCTGGTC AGTGTGGCTG AAAGCCACGG

2830      2840      2850      2860      2870      2880
TTTAAAAAA GCAGTTCAGC GGTTTTGTCT GATCTGCTTT TTGGGGTTTA AAAACGCAAT

2890      2900      2910      2920      2930      2940
TTTTGGCGTT TTCTCTTAT CTGATACTA TTAGCAACAA CTAGTTTTTT AAAATCAAGC

2950      2960      2970      2980      2990      3000
TTGATTAGGC TTAATTGGGC TTGTATCCAT TGATTTTATA GGCTTTTGGT GTATTATTAG

3010      3020      3030      3040      3050      3060
GGTTATAAAT TGGTTGAAAG AAAGACAAA TAAAAACCCA CGTGCAAATT CCTAGTTTGG

3070      3080      3090      3100      3110      3120
CCGCTCGGAA CACGTGAGTT GATTATCATT TCGGATTTAT AGCCTATTCT AGGGGAAAAG

3130      3140      3150      3160      3170      3180
CCCTATGATG TCAAGGTTAT AAGCTTATTG AAAAAGATAG TCAGCTCCTT CACGTGGATA

3190      3200      3210      3220      3230      3240
AACTGGAGGA GCTTTTTATG TCAGAAATTT TTGAAGATAA AACTGAAAAT GGCAAAGTTA

3250      3260      3270      3280      3290      3300
GACCTTGGCG AGAACGGAAG ATTGAAAATG TCGGCTATGC CGAATATTG GCAATCTTAG

3310      3320      3330      3340      3350      3360
AATTTAAACG GGCACATGAT GTACGGGGTT GTGGTGAAGT TTTGCGTTTT CGTAAGATTG

3370      3380      3390      3400      3410      3420
GCGAGCACIT AAAACTTTAT CAAACGTGGT TTTGTCATAA ACGATTGIGT CCATTGTGTA

3430      3440      3450      3460      3470      3480
ATTGGAGAAG GAGCATGAAA AACTCGAGCC AGTTAAAACA AATTATTGCG GAAGCAGTTG

3490      3500      3510      3520      3530      3540
CAAGAGAGCC TAAAGGACGG TTTTGTGTTT TAACTTTAAC CGTTAAAAAC GCTCATTACG

3550      3560      3570      3580      3590      3600
CAGAGGAGTT AAAAGTGCT TTAAGAGCTT TGAATAAGC CTTTAATAAG CTAACCTCGCT
  
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FIG. 5C

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| APPROVED | O.G. FIG. | |
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3610      3620      3630      3640      3650      3660
ATAAAAAAGT GACTAAAAAT TTATTGGGTT ATTTACGTTT AACGGAAATT ACCGTTAATG

3670      3680      3690      3700      3710      3720
AACAAGACGG GTCATATAAT CAACACTTGC ATGTGTGCTT GTTTGTAATA TCAAGTTATT

3730      3740      3750      3760      3770      3780
TTAAGAATTC AAATAATTAT TTAGCACAAG CAGAATGGGC AAAATTATGG CAAAAAGCCT

3790      3800      3810      3820      3830      3840
TGAAAGTTGA TTATGAGCCT GTGGTGCATG TGCAGGCTGT TAAAGCTAAC AAACGTAAAG

3850      3860      3870      3880      3890      3900
GAACTGACTC TTTGCAAGCT AGTGCCGAAG AAACGGCGAA ATACGAGGTA AAATCAGCTG

3910      3920      3930      3940      3950      3960
ATTATATGAC GGCTGATGAT GAGCGTAATT TGGTGGTGAT TAAAAATTTG GAGTATGCCT

3970      3980      3990      4000      4010      4020
TAGCTGGAAC ACGACAAATC AGCTATGGTG GATTATTAAA GCAAATTAAG CAAGATTTGA

4030      4040      4050      4060      4070      4080
AACTTGAAGA TGTGAGAAT GGTGATTTAG TTCATGTTGG CGATGAAGAT TACACCAAAG

4090      4100      4110      4120      4130      4140
AGCAAATGGA AGCTGCGGAA GAAGTTGTCG CAAAATGGGA TTTTAATAAA CAAAATTATT

4150      4160      4170      4180      4190      4200
TTATTTGGTA AAGAGAATGT CAGGATATGA TCTCCGATC CCCTATGGTC GACTCTCAGT

4210      4220      4230      4240      4250      4260
ACAATCTGCT CTGATGCCGC ATAGTTAAGC CAGTATCTGC TCCCTGCTTG TGTGTTGGAG

4270      4280      4290      4300      4310      4320
GTGCTGAGT AGTGCGCGAG CAAAATTTAA GCTACAACAA GGCAAGGCTT GACCGACAAT

4330      4340      4350      4360      4370      4380
TGCATGAAGA ATCTGCTTAG GGTAGGCGT TTTGCGCTGC TTCGTTAGAA GCAAACCTAAG

4390      4400      4410      4420      4430      4440
AGTGTGTTGA GTAGTGCAAT ATCTTAAAAT TTTGTATAAT AGGAATTGAA GTTAAATTAG

4450      4460      4470      4480      4490      4500
ATGCTAAAAA TTTGTAAATTA AGAAGGAGTG ATTACATGAT TGGCAGCCAG TCTCCGGGCA

4510      4520      4530      4540      4550      4560
ATTAATGAAC TTGGACATGG TTGACGACCC GGTCTTTGCA AGCCGAATTC GACCACACTG

4570      4580      4590      4600      4610      4620
GCGGCCGTTA CTAGGGTATC GATCCGATAA AAAGTTAGGC GACGGCTTTG CCCTGGTGCC

4630      4640      4650      4660      4670      4680
AGCAGACGGT AAGGTCTACG CGCCATTTGC CGGTACTGTC CGCCAGCTGG CCAAGACCCG

4690      4700      4710      4720      4730      4740
GCACTGATC GTCTTGAAA ATGAACATGG GGTCTTGGTC TTGATTCACC TTGGCCTGGG

4750      4760      4770      4780      4790      4800
CACGGTCAA TTAACGGGA CTGGCTTTGT CAGCTATGTT GAAGAGGGCA GCCAGGTAGA

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FIG. 5D

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| APPROVED | O.G. FIG. | |
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      4810      4820      4830      4840      4850      4860
AGCCGGCCAG CAGATCCTGG AATTCCTGGGA CCCGGCGATC AAGCAGGCCA AGCTGGACGA

      4870      4880      4890      4900      4910      4920
CACGGTAATC GTGACCGTCA TCAACAGCGA AACTTTTCACA AATAGCCAGA TGCTCTTGCC

      4930      4940      4950      4960      4970      4980
GATCGGCCAC AGCGTCCAAG CCCTGGATGA TGTATTCAAG TTAGAAGGGA AGAATTAGAA

      4990      5000      5010      5020      5030      5040
AATGAGCAAT AAGTTAGTAA AAGAAAAAAG AGTTGACCAG GCAGACCTGG CCTGGCTGAC

      5050      5060      5070      5080      5090      5100
TGACCCGGAA GTTTACGAAG TCAATACAAT TCCCCCGCAC TCCGACCATG AGTCCTTCCA

      5110      5120      5130      5140      5150      5160
AAGCCAGGAA GAACTGGAGG AGGGCAAGTC CAGTTTAGTG CAGTCCCTGG ACGGGGACTG

      5170      5180      5190      5200      5210      5220
GCTGATTGAC TACGCTGAAA ACGGCCAGGG ACCAGTCAAC TTCTATGCAG AAGACTTTGA

      5230      5240      5250      5260      5270      5280
CGATAGCAAT TTTAAGTCAG TCAAAGTACC CGGCAACCTG GAACTGCAAG GCTTTGGCCA

      5290      5300      5310      5320      5330      5340
GCCCCAGTAT GTCAACGTCC AATATCCATG GGACGGCAGT GAGGAGATTT TCCCGCCCCA

      5350      5360      5370      5380      5390      5400
AATTCCAAGC AAAAATCCGC TCGCTTCTTA TGTGAGATAC TTTGACCTGG ATGAAGCTTT

      5410      5420      5430      5440      5450      5460
CTGGGACAAG GAAGTCAGCT TGAAGTTTGA CGGGGCGGCA ACAGCCATCT ATGCTCGGCT

      5470      5480      5490      5500      5510      5520
GAACGGCCAC TTCGTGCGCT ACGGGGAAGA CTCCTTTACC CCAAGCGAGT TTATGGTTAC

      5530      5540      5550      5560      5570      5580
CAAGTTCCTC AAGAAAGAAA ATAACCGCTT GGCAGTGGCT CTCTACAAGT ATTCTTCCGC

      5590      5600      5610      5620      5630      5640
CTCCTGGCTG GAAGACCAGG ACTTCTGGCG CATGTCTGGT TTGTTGAGAT CAGTGACTCT

      5650      5660      5670      5680      5690      5700
TCAGGCCAAG CCGCGTCTGC ACTTGGAGGA CCTTAAGCTT ACGGCCAGCT TGACCGATAA

      5710      5720      5730      5740      5750      5760
CTACCAAAAA GGAAAGCTGG AAGTCGAAGC CAATATTGCC TACCGCTTGC CAAATGCCAG

      5770      5780      5790      5800      5810      5820
CTTTAAGCTG GAAGTGCGGG ATAGTGAAGG TGACTTGGTT GCTGAAAAGC TGGGCCCAAT

      5830      5840      5850      5860      5870      5880
CAGAAGCGAG CAGCTGGAAT TCACTCTGGC TGATTTGCCA GTAGCTGCCT GGAGCGCGGA

      5890      5900      5910      5920      5930      5940
AAAGCCTAAC CTTTACCAGG TCCGCCTGTA TTTATACCAG GCAGGCAGCC TCTTAGAGGT

      5950      5960      5970      5980      5990      6000
TAGCCGGCAG GAAGTGGGTT TCCGCAACTT TGAAGTAAAA GACGGGATTA TGTACCTTAA

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FIG. 5E

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6010      6020      6030      6040      6050      6060
CGGCCAGCGG ATCGTCTTCA AGGGGGCCAA CCGGCACGAA TTTGACAGTA AGTTGGGTCC

6070      6080      6090      6100      6110      6120
GGCTATCACG GAAGAGGATA TGATCTGGGA CATCAAGACC ATGAAGCGAA GCAACATCAA

6130      6140      6150      6160      6170      6180
TGCTGTCCGC TGCTCTCACT ACCCGAACCA GTCCCTCTTT TACCGGCTCT GTGACAAGTA

6190      6200      6210      6220      6230      6240
CGGCCTTTAC GTCATTGATG AAGCTAACCT GGAAAGCCAC GGCACCTGGG AAAAAGTGGG

6250      6260      6270      6280      6290      6300
GGGGCACGAA GATCCTAGCT TCAATGTTCC AGGCGATGAC CAGCATTGGC TGGGAGCCAG

6310      6320      6330      6340      6350      6360
CTTATCCCGG GTGAAGAACA TGATGGCTCG GGACAAGAAC CATGCTTCAA TCCTAATCTG

6370      6380      6390      6400      6410      6420
GTCTTTAGGC AATGAGTCTT ACGCCGGCAC TGTCTTTGCC CAAATGGCTG ATTACGTCCG

6430      6440      6450      6460      6470      6480
GAAGGCTGAT CCGACCCGGG TTCAGCACTA TGAAGGGGTG ACCACAACCC GGAAGTTTGA

6490      6500      6510      6520      6530      6540
CGACGCCACC CAGATTGAAA GCCGGATGTA TGCTCCGGCC AAGGTAATTG AAGAATACTT

6550      6560      6570      6580      6590      6600
GACCAATAAA CCAGCCAAGC CATTTATCTC AGTTGAATAC GCTCACGCCA TGGGCAACTC

6610      6620      6630      6640      6650      6660
CGTCGGTGAC CTGGCCGCCT ACACGGCCCT GGAAAAATAC CCCCACTACC AGGGCGGCTT

6670      6680      6690      6700      6710      6720
CATCTGGGAC TGGATTGACC AAGGACTGGA AAAAGACGGG CACCTGCTTT ATGGGGGCGA

6730      6740      6750      6760      6770      6780
CTTCGATGAC CGGCCAACCG ACTATGAATT CTGCGGGAAC GGCCTGGTCT TTGCTGACCG

6790      6800      6810      6820      6830      6840
GACTGAATCG CCGAAACTGG CTAATGTCAA GGCCCTTTAC GCCAACCTTA AGTTAGAAGT

6850      6860      6870      6880      6890      6900
AAAAGATGGG CAGCTCTTCC TCAAAAACGA CAATTTATTT ACCAACAGCT CATCTTACTA

6910      6920      6930      6940      6950      6960
CTTCTTGACT AGTCTTTTGG TCGATGGCAA GTTGACCTAC CAGAGCCGGC CTCTGACCTT

6970      6980      6990      7000      7010      7020
TGGCCTGGAG CCTGGCGAAT CCGGGACCTT TGCCCTGCCT TGGCCGGAAG TCGCTGATGA

7030      7040      7050      7060      7070      7080
AAAAGGGGAG GTCGTCTACC GGGTAACGGC CCACTTAAAA GAAGACTTGC CTTGGGCGGA

7090      7100      7110      7120      7130      7140
TGAGGGCTTC ACTGTGGCTG AAGCAGAAGA AGTAGCTCAA AAGCTGCCGG AATTTAAGCC

7150      7160      7170      7180      7190      7200
GGAAGGGCGG CCAGATTTAG TTGATTCCGA CTACAACCTA GGCTGAAAG GAAATAACTT

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FIG. 5F

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      7210      7220      7230      7240      7250      7260
CCAAATTCCTC TTCTCCAAGG TCAAGGGCTG GCCGGTTTCC CTCAAGTATG CCGGTAGGGA

      7270      7280      7290      7300      7310      7320
ATACTTGAAG CGCTGCCGG AATTTACCTT CTGGCGGGCC CTGACGGACA ACGACCGGGG

      7330      7340      7350      7360      7370      7380
AGCTGGTTAC GGCTATGATC TGGCCCGGTG GGAAAATGCC GGCAAGTATG CCCGCTTGAA

      7390      7400      7410      7420      7430      7440
AGACATCAGC TGCAGGTCA AGGAAGACTC CGTTTTGGTC AAGACTGCCT TTACGTGCCC

      7450      7460      7470      7480      7490      7500
TGTCGCCTTA AAGGGTGATT TAACCGTGAC CTATGAAGTC GATGGACGGG GCAAGATTGC

      7510      7520      7530      7540      7550      7560
TGTAACAGCT GACTTCCCAG GCGCGGAAGA AGCTGGTCTC TTGCCAGCCT TTGGCTTGAA

      7570      7580      7590      7600      7610      7620
CCTGGCCCTG CCAAAGAAGC TGACCGATTA CCGCTACTAT GGTCTGGGAC CTAATGAGAG

      7630      7640      7650      7660      7670      7680
CTACCCAGAC CGCTTGGAAG GTAATTACCT GGGCATCTAC CAGGGAGCGG TAAAAAAGAA

      7690      7700      7710      7720      7730      7740
CTTTAGCCCA TATCGTCCGC AGGAAACGGG CAACCGGAGC AAGGTTCGCT GGTACCAGCT

      7750      7760      7770      7780      7790      7800
CTTTGATGAA AAGGGCGGCT TGAATTTAC GGCCAATGGG GCAGACTTGA ACTTGCTCTG

      7810      7820      7830      7840      7850      7860
TTTGCCATAT TCTGCCGCC AAATTGAAGC AGCGGACCAC GCTTTTGAAC TGACTAACAA

      7870      7880      7890      7900      7910      7920
TTACACTTGG GTTAGAGCCT TAAGCGCCCA GATGGGGGTC GGCGGGGATG ACTCCTGGGG

      7930      7940      7950      7960      7970      7980
GCAGAAGGTC CACCCGGAAT TCTGCCTGGA TGCTCAAAAA GCCCGCCAGC TTCGCCTGGT

      7990      8000      8010      8020      8030      8040
GATTCAGCCC CTTTACTAA AATAAATGCT ACAATTGACT TAACAGGATG AAATTTTAGT

      8050      8060      8070      8080      8090      8100
AAAAGCAAAG CGAGTGAGGA AGATGGCAAC GATCAGAGAA GTGCCAAGGC AGCCGGCGTG

      8110      8120      8130      8140      8150      8160
TCGCTAGCGA CGGTC.....
  
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FIG. 5G

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      10      20      30      40      50      60
GATGTACGGG CCAGATATAC GCGTTGACAT TGATTATTGA CTAGTTATTA ATAGTAATCA

      70      80      90     100     110     120
ATTACGGGGT CATTAGTTCA TAGCCCATAT ATGGAGTTCC GCGTTACATA ACTTACGGTA

      130     140     150     160     170     180
AATGGCCCGC CTGGCTGACC GCCCAACGAC CCCC GCCCAT TGACGTCAAT AATGACGTAT

      190     200     210     220     230     240
GTTCCCATAG TAACGCCAAT AGGGACTTTC CATTGACGTC AATGGGTGGA CTATTTACGG

      250     260     270     280     290     300
TAAACTGCCC ACTTGGCAGT ACATCAAGTG TATCATATGC CAAGTACGCC CCCTATTGAC

      310     320     330     340     350     360
GTCAATGACG GTAAATGGCC CGCCTGGCAT TATGCCCAGT ACATGACCTT ATGGGACTTT

      370     380     390     400     410     420
CCTACTTGGC AGTACATCTA CGTATTAGTC ATCGCTATTA CCATGGTGAT GCGGTTTTGG

      430     440     450     460     470     480
CAGTACATCA ATGGGCGTGG ATAGCGGTTT GACTCACGGG GATTTCOAAG TCTCCACCCC

      490     500     510     520     530     540
ATTGACGTCA ATGGGAGTTT GTTTTGGCAC CAAAATCAAC GGGACTTTCC AAAATGTGCT

      550     560     570     580     590     600
AACAACTCCG CCCCATTGAC GCAAATGGGC GGTAGGCGTG TACGGTGGGA GGTCTATATA

      610     620     630     640     650     660
AGCAGAGCTC TCTGGCTAAC TAGAGAACCC ACTGCTTACT GGCTTATCGA AATTAATACG

      670     680     690     700     710     720
ACTCACTATA GGGAGACCCA AGCTTGGTAC CGAGCTCGGA TCCACTAGTA ACGGCCGCCA

      730     740     750     760     770     780
GTGTGCTGGA ATTCTGCAGA TATCCATCAC ACTGGCGGCC GCTCGAGCAT GCATCTAGAG

      790     800     810     820     830     840
GGCCCTATTC TATAGTGTC CTTAAATGCT AGAGCTCGCT GATCAGCCTC GACTGTGCCT

      850     860     870     880     890     900
TCTAGTTGCC AGCCATCTGT TGTTTGCCCC TCCCCCGTGC CTTCTTGAC CCTGGAAGGT

      910     920     930     940     950     960
GCCACTCCCA CTGTCTTTTC CTAATAAAAT GAGGAAATTG CATCGCATTG TCTGAGTAGG

      970     980     990    1000    1010    1020
TGTCATTCTA TTCTGGGGGG TGGGGTGGGG CAGGACAGCA AGGGGGAGGA TTGGGAAGAC

      1030    1040    1050    1060    1070    1080
AATAGCAGGC ATGCTGGGGA TGCGGTGGGC TCTATGGCTT CTGAGGCGGA AAGAACCAGC

      1090    1100    1110    1120    1130    1140
TGCATTAATG AATCGGCCAA CGCGCGGGGA GAGGCGGTTT GCGTATTGGG CGCTCTTCCG

      1150    1160    1170    1180    1190    1200
CTTCTCGCT CACTGACTCG CTGCGCTCGG TCGTTCGGCT GCGGCGAGCG GTATCAGCTC

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FIG. 6A

FIG. 6B

FIG. 6C

FIG. 6D

FIG. 6E

FIG. 6F

FIG. 6G

FIG. 6A

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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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1210      1220      1230      1240      1250      1260
ACTCAAAGGC GGTAATACGG TTATCCACAG AATCAGGGGA TAACGCAGGA AAGAACATGT

1270      1280      1290      1300      1310      1320
GAGCAAAAGG CCAGCAAAAG GCCAGGAACC GTAAAAAGGC CGCGTTGCTG GCGTTTTTTC

1330      1340      1350      1360      1370      1380
ATAGGCTCCG CCCCCCTGAC GAGCATCACA AAAATCGACG CTCAAGTCAG AGGTGGCGAA

1390      1400      1410      1420      1430      1440
ACCGACAGG ACTATAAAGA TACCAGGCGT TTCCCCCTGG AAGCTCCCTC GTGCGCTCTC

1450      1460      1470      1480      1490      1500
CTGTTCCGAC CCTGCCGCTT ACCGGATACC TGTCCGCCTT TCTCCCTTCG GGAAGCGTGG

1510      1520      1530      1540      1550      1560
CGCTTTCTCA ATGCTCACGC TGTAGGTATC TCAGTTCGGT GTAGGTCGTT CGCTCCAAGC

1570      1580      1590      1600      1610      1620
TGGGCTGTGT GCACGAACCC CCCGTCAGC CCGACCGCTG CGCCTTATCC GGTAACATC

1630      1640      1650      1660      1670      1680
GTCTTGAGTC CAACCCGGTA AGACACGACT TATCGCCACT GGCAGCAGCC ACTGGTAACA

1690      1700      1710      1720      1730      1740
GGATTAGCAG AGCGAGGTAT GTAGGCGGTG CTACAGAGTT CTTGAAGTGG TGGCCTAACT

1750      1760      1770      1780      1790      1800
ACGGCTACAC TAGAAGGACA GTATTTGGTA TCTGCGCTCT GCTGAAGCCA GTTACCTTCG

1810      1820      1830      1840      1850      1860
GAAAAAGAGT TGGTAGCTCT TGATCCGGCA AACAAACCAC CGCTGGTAGC GGTGGTTTTT

1870      1880      1890      1900      1910      1920
TTGTTTGCAA GCAGCAGATT ACGCGCAGAA AAAAAGGATC TCAAGAAGAT CCTTTGATCT

1930      1940      1950      1960      1970      1980
TTTCTACGGG GTCTGACGCT CAGTGGAACG AAAACTCAGC TTAAGGGATT TTGGTCATGA

1990      2000      2010      2020      2030      2040
GCGGATACAT ATTTGAATGT ATTTAGAAAA ATAAACAAAT AGGGGTTCGG CGCACATTTT

2050      2060      2070      2080      2090      2100
CCCGAAAAGT GCCACCTGAC GTCGACGGAT CGGGAGATCA TATCCTGACA TTCTCTTTAC

2110      2120      2130      2140      2150      2160
CAAATAAAAT AATTTTGTTT ATTAAATCC CATTTTGCGA CAACTTCTTC CGCAGCTTCC

2170      2180      2190      2200      2210      2220
ATTTGCTCTT TGGTGTAATC TTCATCGCCA ACATGAACATA AATCACCATT CTCAACATCT

2230      2240      2250      2260      2270      2280
TCAAGTTTCA AATCTTGCTT AATTTGCTTT AATAATCCAC CATAGCTGAT TTGTCGTGTT

2290      2300      2310      2320      2330      2340
CCAGCTAAGG CATACTCCAA ATTTTAAATC ACCACCAAAT TACGCTCATC ATCAGCCGTC

2350      2360      2370      2380      2390      2400
ATATAATCAG CTGATTTTAC CTGATTTTTC GCGTTTCTTT CGGCACTAGC TTGCAAGAG
  
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FIG. 6B

| | | |
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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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2410      2420      2430      2440      2450      2460
TCAGTTCCTT TACGTTTGTG AGCTTTAACA GCCTGCACAT GCACCACAGG CTCATAATCA

2470      2480      2490      2500      2510      2520
ACTTTCAAGG CTTTTTGCCA TAATTTTGCC CATTCTGCTT GTGCTAAATA ATTATTTGAA

2530      2540      2550      2560      2570      2580
TTCTTAAAT AACTTGATTT TACAAACAGC AACACATGCA AGTGTGATT ATATGACCCG

2590      2600      2610      2620      2630      2640
TCTTGTTTCA TAACGGTAAT TTCCGTTGAA CGTAAATAAC CCAATAAATT TTTAGTCACT

2650      2660      2670      2680      2690      2700
TTTTTATAGC GAGTTAGCTT ATTAAAGGCT TTAGTCAAAG CTCTTAAAGA CACTTTTAAC

2710      2720      2730      2740      2750      2760
TCCTCTGCTG AATGAGCGTT TTTAACGGTT AAAGTTAAAA ACAAAAACCG TCCTTTAGGC

2770      2780      2790      2800      2810      2820
TCTCTTGCAA CTGCTTCCGC AATAATTGT TTTAACTGGC TCGAGTTTTT CATGCTCCTT

2830      2840      2850      2860      2870      2880
CTCCAATTAC ACAATGGACA CAATCGTTTA TGACAAAACC ACGTTTGATA AAGTTTAAAG

2890      2900      2910      2920      2930      2940
TGCTCGCCAA TCTTACGAAA ACGCAAACT TCACCACAAC CCCGTACATC ATGTGCCCGT

2950      2960      2970      2980      2990      3000
TTAAATTCTA AGATTGCCAA ATATTGGCA TAGCGCACAT TTTCAATCTT CCGTCTCGC

3010      3020      3030      3040      3050      3060
CAAGGTCTAA CTTTGCCATT TTCAGTTTTA TCTTCAAAA TTTCTGACAT AAAAGCTCC

3070      3080      3090      3100      3110      3120
TCCAGTTTAT CCACGTGAAG GAGCTGACTA TCTTTTCAA TAAGCTTATA ACCTTGACAT

3130      3140      3150      3160      3170      3180
CATAGGGCTT TTCCCCTAGA ATAGGCTATA AATCGCAAAT GATAATCAAC TCACGTGTTT

3190      3200      3210      3220      3230      3240
CGAGCGGCCA AACTAGGAAT TTGCACGTGG GTTTTTATTT TGTCTTTCTT TCAACCAATT

3250      3260      3270      3280      3290      3300
TATAACCCTA ATAATACACC AAAAGCCTAT AAAATCAATG GATACAAGCC CAATTAAGCC

3310      3320      3330      3340      3350      3360
TAATCAAGCT TGATTTTAAA AAAC TAGTTG TTGCTAATAG TATCAAGATA AGAAGAAAC

3370      3380      3390      3400      3410      3420
GCCAAAATT GCGTTTTTAA ACCCCAAAA GCAGATCAGC AAAAACCGCT GAACTGCTTT

3430      3440      3450      3460      3470      3480
TTTTAAACCG TGGCTTTCAG CCACACTGAC CAGCTGAACC AGCTGGACCG TAACGCTTGC

3490      3500      3510      3520      3530      3540
CGCCGCTGGG CTCGGGAAAA CAAGGGCTTG TTTTCCAAGA CGTCAGGCTT TTGGTATTGT

3550      3560      3570      3580      3590      3600
CTAGTCTATC AACTCCTTAA AGCCTCCAAG AGGGGCTAAT ATGCGCTGTA AGGCTCAATA

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FIG. 6C

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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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3610      3620      3630      3640      3650      3660
AGCCCCCTCTA AGTCGATTTA CCGTTGACAG ACAGTTAGAT AGCTAACTGT TAGCTAAAAT

3670      3680      3690      3700      3710      3720
CGCTTAGAAC  GCAAATAAGA GCCTTTAAAA TTAACGTTCA AAAATAAAAA AGTTCTGAAGG

3730      3740      3750      3760      3770      3780
AGCTAGCGAC  TGAACCTATT TATTTTGTAA TGTTCCAAAC TGACGCAAGT CAGTTACGTT

3790      3800      3810      3820      3830      3840
TGAGCAACGC  GAAATCTGAT GCAGGTTTTG ATGGGTTTAG CACAACACAA CTTTCATGTTG

3850      3860      3870      3880      3890      3900
TGTGTAAGTG  CGCACTACAT GATAATGCGC ACTACATGAT AATGCGCACT ACATGATAAT

3910      3920      3930      3940      3950      3960
GTGCGCACTA  CATGATAATG CGCACTACAT GATAATGTAC ATGATAATGT GCGCACTACA

3970      3980      3990      4000      4010      4020
TGATAATGCG  CACTACATGA TAATGCGCAC TACATGATAA TGCGCACTAC ATGATAATGC

4030      4040      4050      4060      4070      4080
GCACTACATG  ATAATGCGCA CTACATGATA ATGCGCACTA CATGATAATG TGCACCTACA

4090      4100      4110      4120      4130      4140
CTCCAAATAA  ATTGGAGTAA TGCTAAAACC TGTATCAGAA GTCAGCAAGC TGACAACAAA

4150      4160      4170      4180      4190      4200
AAAGGGATAT  GCCAACGGAT TTACCGTTGA TCTCCCGATC CCCTATGGTC GACTCTCAGT

4210      4220      4230      4240      4250      4260
ACAATCTGCT  CTGATGCCGC ATAGTTAAGC CAGTATCTGC TCCCTGCTTG TGTGTTGGAG

4270      4280      4290      4300      4310      4320
GTCGCTGAGT  AGTGGCGGAG CAAAATTTAA GCTACAACAA GGCAAGGCTT GACCGACAAT

4330      4340      4350      4360      4370      4380
TGCATGAAGA  ATCTGCTTAG GGTTAGGCGT TTTGCGCTGC TTCGTTAGAA GCAAACCTAG

4390      4400      4410      4420      4430      4440
AGTGTGTTGA  GTAGTGCAGT ATCTTAAAT TTTGTATAAT AGGAATTGAA GTTAAATTAG

4450      4460      4470      4480      4490      4500
ATGCTAAAAA  TTTGTAATTA AGAAGGAGTG ATTACATGAT TGGCAGCCAG TCTCCGGGGC

4510      4520      4530      4540      4550      4560
ATTAATGAAC  TTGGACATGG TTGACGACCC GGTCTTTTGA AGCCGAATTC GACCACACTG

4570      4580      4590      4600      4610      4620
GGGCGCGTTA  CTAGGGTATC GATCCGATAA AAAGTTAGGC GACGGCTTTG CCCTGGTGCC

4630      4640      4650      4660      4670      4680
AGCAGACGGT  AAGGTCTACG CGCCATTTGC CGGTACTGTC CGCCAGCTGG CCAAGACCCG

4690      4700      4710      4720      4730      4740
GCACTCGATC  GTCCTGGAAA ATGAACATGG GGTCTTGGTC TTGATTCAAC TTGGCCTGGG

4750      4760      4770      4780      4790      4800
CACGGTCAAA  TTAAACGGGA CTGGCTTTGT CAGCTATGTT GAAGAGGGCA GCCAGGTAGA
  
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FIG. 6D

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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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      4810      4820      4830      4840      4850      4860
AGCCGCCCAG CAGATCCTGG AATTCTGGGA CCCGGCGATC AAGCAGGCCA AGCTGGACGA

      4870      4880      4890      4900      4910      4920
CACGGTAATC GTGACCGTCA TCAACAGCGA AACTTTCACA AATAGCCAGA TGCTCTTGCC

      4930      4940      4950      4960      4970      4980
GATCGGCCAC AGCGTCCAAG CCTTGGATGA TGTATTCAAG TTAGAAGGGA AGAATTAGAA

      4990      5000      5010      5020      5030      5040
AATGAGCAAT AAGTTAGTAA AAGAAAAAAG AGTTGACCAG GCAGACCTGG CCTGGCTGAC

      5050      5060      5070      5080      5090      5100
TGACCCGGAA GTTTACGAAG TCAATACAAT TCCCCCGCAC TCCGACCATG AGTCCTTCCA

      5110      5120      5130      5140      5150      5160
AAGCCAGGAA GAACTGGAGG AGGGCAAGTC CAGTTTAGTG CAGTCCCTGG ACGGGGACTG

      5170      5180      5190      5200      5210      5220
GCTGATTGAC TACGCTGAAA ACGGCCAGGG ACCAGTCAAC TTCTATGCAG AAGACTTTGA

      5230      5240      5250      5260      5270      5280
CGATAGCAAT TTTAAGTCAG TCAAAGTACC CGGCAACCTG GAACTGCAAG GCTTTGGCCA

      5290      5300      5310      5320      5330      5340
GCCCCAGTAT GTCAACGTCC AATATCCATG GGACGGCAGT GAGGAGATTT TCCCGCCCCA

      5350      5360      5370      5380      5390      5400
AATTCCAAGC AAAAATCCGC TCGCTTCTTA TGTGAGATAC TTTGACCTGG ATGAAGCTTT

      5410      5420      5430      5440      5450      5460
CTGGGACAAG GAAGTCAGCT TGAAGTTTGA CGGGGCGGCA ACAGCCATCT ATGTCTGGCT

      5470      5480      5490      5500      5510      5520
GAACGGCCAC TTCGTGGCTT ACGGGGAAGA CTCTTTTACC CCAAGCGAGT TTATGGTTAC

      5530      5540      5550      5560      5570      5580
CAAGTTCTTC AAGAAAGAAA ATAACCGCCT GGCAGTGGCT CTCTACAAGT ATTCTTCCGC

      5590      5600      5610      5620      5630      5640
CTCCTGGCTG GAAGACCAGG ACTTCTGGCG CATGTCTGGT TTGTTGAGAT CAGTGACTCT

      5650      5660      5670      5680      5690      5700
TCAGGCCAAG CCGCGTCTGC ACTTGGAGGA CCTTAAGCTT ACGGCCAGCT TGACCGATAA

      5710      5720      5730      5740      5750      5760
CTACCAAAAA GGAAAGCTGG AAGTCGAAGC CAATATTGCC TACCGCTTGC CAAATGCCAG

      5770      5780      5790      5800      5810      5820
CTTTAAGCTG GAAGTGGGGG ATAGTGAAGG TGACTTGGTT GCTGAAAAGC TGGGCCCAAT

      5830      5840      5850      5860      5870      5880
CAGAAGCGAG CAGCTGGAAT TCACTCTGGC TGATTTGCCA GTAGCTGCCT GGAGCGCGGA

      5890      5900      5910      5920      5930      5940
AAAGCCTAAC CTTTACCAGG TCCGCCTGTA TTTATACCAG GCAGGCAGCC TCTTAGAGGT

      5950      5960      5970      5980      5990      6000
TAGCCGGCAG GAAGTGGGTT TCCGCAACTT TGAAGTAAAA GACGGGATTA TGTACCTTAA

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FIG. 6E

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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

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        6010      6020      6030      6040      6050      6060
CGGCCAGCGG ATCGTCTTCA AGGGGGCCAA CCGGCACGAA TTTGACAGTA AGTTGGGTCC

        6070      6080      6090      6100      6110      6120
GGCTATCACG GAAGAGGATA TGATCTGGGA CATCAAGACC ATGAAGCGAA GCAACATCAA

        6130      6140      6150      6160      6170      6180
TGCTGTCCGC TGCTCTCACT ACCCGAACCA GTCCCTCTTT TACCGGCTCT GTGACAAGTA

        6190      6200      6210      6220      6230      6240
CGGCCTTTAC GTCATTGATG AAGCTAACCT GGAAAGCCAC GGCACCTGGG AAAAAGTGGG

        6250      6260      6270      6280      6290      6300
GGGGCACGAA GATCCTAGCT TCAATGTTCC AGGCGATGAC CAGCATTGGC TGGGAGCCAG

        6310      6320      6330      6340      6350      6360
CTTATCCCGG GTGAAGAACA TGATGGCTCG GGACAAGAAC CATGCTTCAA TCCTAATCTG

        6370      6380      6390      6400      6410      6420
GTCTTTAGGC AATGAGTCTT ACGCCGGCAC TGCTTTTGCC CAAATGGCTG ATTACGTCCG

        6430      6440      6450      6460      6470      6480
GAAGGCTGAT CCGACCCGGG TTCAGCACTA TGAAGGGGTG ACCCACAACC GGAAGTTTGA

        6490      6500      6510      6520      6530      6540
CGACGCCACC CAGATTGAAA GCCGGATGTA TGCTCCGGCC AAGGTAATTG AAGAATACTT

        6550      6560      6570      6580      6590      6600
GACCAATAAA CCAGCCAAGC CATTTATCTC AGTTGAATAC GCTCACGCCA TGGGCAACTC

        6610      6620      6630      6640      6650      6660
CGTCGGTGAC CTGGCCGCCT ACACGGCCCT GGAAAAATAC CCCACTACC AGGGCGGCTT

        6670      6680      6690      6700      6710      6720
CATCTGGGAC TGGATTGACC AAGGACTGGA AAAAGACGGG CACCTGCTTT ATGGGGGCGA

        6730      6740      6750      6760      6770      6780
CTTCGATGAC CGGCCAACCG ACTATGAATT CTGCGGGAAC GGCCTGGTCT TTGCTGACCG

        6790      6800      6810      6820      6830      6840
GACTGAATCG CCGAAACTGG CTAATGTCAA GGCCCTTTAC GCCAACCTTA AGTTAGAAGT

        6850      6860      6870      6880      6890      6900
AAAAGATGGG CAGCTCTTCC TCAAAAACGA CAATTTATTT ACCAACAGCT CATCTTACTA

        6910      6920      6930      6940      6950      6960
CTTCTTGACT AGTCTTTTGG TCGATGGCAA GTTGACCTAC CAGAGCCGGC CTCTGACCTT

        6970      6980      6990      7000      7010      7020
TGGCCTGGAG CCTGGCGAAT CCGGGACCTT TGCCCTGCCT TGGCCGGAAG TCGCTGATGA

        7030      7040      7050      7060      7070      7080
AAAAGGGGAG GTCGTCTACC GGGTAACGGC CCACTTAAAA GAAGACTTGC CTTGGGCGGA

        7090      7100      7110      7120      7130      7140
TGAGGGCTTC ACTGTGGCTG AAGCAGAAGA AGTAGCTCAA AAGCTGCOGG AATTTAAGCC

        7150      7160      7170      7180      7190      7200
GGAAGGGCGG CCAGATTTAG TTGATTCCGA CTACAACTA GGCCTGAAAG GAAATAACTT

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FIG. 6F

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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
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      7210      7220      7230      7240      7250      7260
CCAAATTCCTC TTCTCCAAGG TCAAGGGCTG GCCGGTTTCC CTCAAGTATG CCGGTAGGGA

      7270      7280      7290      7300      7310      7320
ATACTTGAAG CGGCTGCCGG AATTTACCTT CTGGCGGGCC CTGACGGACA ACGACCGGGG

      7330      7340      7350      7360      7370      7380
AGCTGGTTAC GGCTATGATC TGGCCCCGGT GGAATATGCC GGCAAGTATG CCGCTTGAA

      7390      7400      7410      7420      7430      7440
AGACATCAGC TGCAGGTCA AGGAAGACTC CGTTTTGGTC AAGACTGCCT TTACGTTGCC

      7450      7460      7470      7480      7490      7500
TGTCGCCCTA AAGGGTGATT TAACCGTGAC CTATGAAGTC GATGGACGGG GCAAGATTGC

      7510      7520      7530      7540      7550      7560
TGTAACAGCT GACTTCCCAG GCGCGGAAGA AGCTGGTCTC TTGCCAGCCT TTGGCTTGAA

      7570      7580      7590      7600      7610      7620
CCTGGCCCTG CCAAAGAAG TGACCGATTA CCGCTACTAT GGTCTGGGAC CTAATGAGAG

      7630      7640      7650      7660      7670      7680
CTACCCAGAC CGCTTGGAAG GTAATTACCT GGGCATCTAC CAGGGAGCGG TAAAAAGAA

      7690      7700      7710      7720      7730      7740
CTTTAGCCCA TATCGTCCGC AGGAAACGGG CAACCGGAGC AAGGTTGCT GGTACCAGCT

      7750      7760      7770      7780      7790      7800
CTTTGATGAA AAGGGCGGCT TGGAAATTAC GGCCAATGGG GCAGACTTGA ACTTGTCCTG

      7810      7820      7830      7840      7850      7860
TTTGCCATAT TCTGCCGCC AAATTGAAGC AGCGGACCAC GCTTTTGAAC TGAATAACAA

      7870      7880      7890      7900      7910      7920
TTACACTTGG GTTAGAGCCT TAAGCGCCCA GATGGGGGTC GGCGGGGATG ACTCCTGGGG

      7930      7940      7950      7960      7970      7980
GCAGAAGGTC CACCCGAAT TCTGCCTGGA TGCTCAAAAA GCCCGCCAGC TTCGCCTGGT

      7990      8000      8010      8020      8030      8040
GATTGAGCCC CTTTTACTAA AATAAATGCT ACAATTGACT TAACAGGATG AAATTTTAGT

      8050      8060      8070      8080      8090      8100
AAAAGCAAAG CGAGTGAGGA AGATGGCAAC GATCAGAGAA GTGCCAAGGC AGCCGGCGTG

      8110      8120      8130      8140      8150      8160
TCGCTAGCGA CGGTC.....

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FIG. 6G

| | | |
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| APPROVED | O.G. FIG. | |
| BY | CLASS | SUBCLASS |
| DRAFTSMAN | | |

App. No.: 09/778,516
Applicant(s): Wei-Yu Lo et al.
LAC SHUTTLE VECTORS

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1 2 3 4 5 6 7 8 9 10

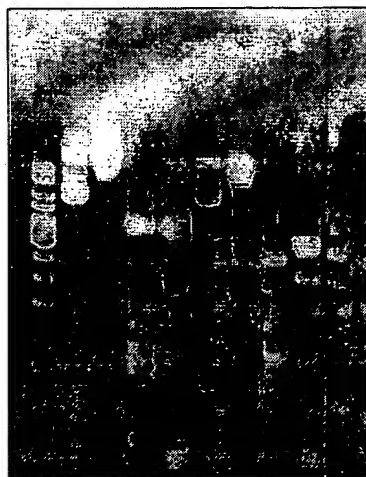


Fig.7A

1 2 3 4 5 6 7 8 9 10

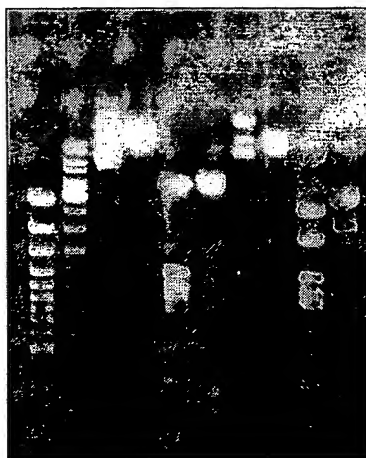


Fig.7B